

## ABSTRACT

There are provided an H chain polypeptide of a recombinant antibody against human TNF $\alpha$  or its fragment, having at least one of the following amino acid sequences:

5       a) as CDR-H1,

Gly-Tyr-Thr-Phe-Thr-Asn-Tyr-Gly-Met-Asn;

2) as CDR-H2,

Trp-Ile-Asn-Thr-Tyr-Thr-Gly-Glu-Pro-Thr-Tyr-Ala-Asp-Asp-Phe-Lys-Gly; and

10       c) as CDR-H3,

Tyr-Asp-Tyr-Asp-Gly-Phe-Asp-Tyr,

an L chain polypeptide of a recombinant antibody against human TNF $\alpha$  having at least one of the following amino acid sequences:

15       a') as CDR-L1,

Thr-Ala-Ser-Ser-Ser-Val-Ser-Phe-Ser-Tyr-Leu-His;

b') as CDR-L2,

Tyr-Ser-Thr-Ser-Asn-Leu-Ala-Ser; and

c') as CDR-L3,

20       His-Gln-Tyr-Leu-Arg-Ser-Pro-Tyr-Thr,

and a humanized antibody against human TNF $\alpha$  comprising the above-described H chain polypeptide or its fragment and the L chain polypeptide, or its fragment. There is further provided, a method for producing a humanized anti-TNF $\alpha$  antibody which comprises transforming host cells by an expression vector having a gene encoding the above-described antibody, etc. and culturing the cells.